

AMENDMENTS TO THE CLAIMS:

Claims 16, 17, 19 and 20 are canceled without prejudice or disclaimer. Claims 5, 9, 10, 12, 14, 15, 18, 21, and 26 are amended. The following is the status of the claims of the above-captioned application, as amended.

1. (Original.) A polypeptide having antimicrobial activity, comprising the amino acid sequence as set forth in SEQ ID NO:1, or a fragment thereof of at least 18 amino acids having antimicrobial activity:

G-X₁-X₂-X₃-X₄-X₅-X₆-X₇-X₈-X₉-X₁₀-X₁₁-X₁₂-X₁₃-X₁₄-X₁₅-X₁₆-Z;

wherein

X₁ = L, I, W or M;

X₂ = L, F, W or V;

X₃ = S, G, K, T, R, I, N, D or E;

X₄ = K, T, F, I, R, M, L or S;

X₅ = L or I;

X₆ = K, G, R, M or E;

X₇ = K, S, I, R, T or M;

X₈ = A, K, T, N, R or E;

X₉ = A, G, S, I, L, T, V, M or W;

X₁₀ = S, R, K or E;

X₁₁ = K, M, R, H, I, N or T;

X₁₂ = A, V, I, L, Y, F or T;

X₁₃ = L, A, G, C, F, V or W;

X₁₄ = K, Q, A, S, R or E;

X₁₅ = H, G, N, R, S, M, I, V or D;

X₁₆ = V, I, A or F;

Z = X₁₇ or X₁₇-R-W-L; wherein X₁₇ = F, L, R, A, G, V, Y, C or P;

and wherein the amino acids making up the polypeptide are independently selected from D or L forms.

2. (Original.) A polypeptide having antimicrobial activity, consisting of an amino acid sequence which consists of 18 amino acids and which is extended by the amino acid sequence R-W-L; wherein the amino acids making up the polypeptide are independently selected from D or L forms.

3. (Original.) The polypeptide of claim 1, which comprises the amino acids of anyone of SEQ ID NO:1 to SEQ ID NO:46.

4. (Original.) The polypeptide of claim 1, which consists of the amino acids of anyone of SEQ ID NO:1 to SEQ ID NO:46.

5. (Currently amended.) A polynucleotide having a nucleotide sequence which encodes for the polypeptide defined in ~~any of claims 1-4~~claim 1.

6. (Original.) A nucleic acid construct comprising the nucleotide sequence defined in claim 5 operably linked to one or more control sequences that direct the production of the polypeptide in a suitable host.

7. (Original.) A recombinant expression vector comprising the nucleic acid construct defined in claim 6.

8. (Original.) A recombinant host cell comprising the nucleic acid construct defined in claim 6.

9. (Currently amended.) A method for producing a polypeptide as defined in ~~any of claims 1-4~~claim 1, the method comprising:

- (a) cultivating a recombinant host cell as defined in claim 10 under conditions conducive for production of the polypeptide; and
- (b) recovering the polypeptide.

10. (Currently amended.) A composition comprising an antimicrobial polypeptide as defined in ~~any of claims 1-4~~claim 1.

11. (Original.) The composition of claim 10, which further comprises an additional biocidal agent.

12. (Currently amended.) A method for killing or inhibiting growth of microbial cells comprising contacting the microbial cells with an antimicrobial polypeptide as defined in ~~any of claims 1-4~~claim 1.

13. (Original.) A detergent composition comprising a surfactant and an antimicrobial polypeptide as defined in ~~any of claims 1-4~~claim 1.

14. (Currently amended.) An antimicrobial polypeptide as defined in ~~any of claims 1-4~~claim 1 for use as a medicament.

15. (Currently amended.) An antimicrobial polypeptide as defined in ~~any of claims 1-4~~claim 1 for use as an antimicrobial veterinarian or human therapeutic or prophylactic agent.

16. (Cancelled.)

17. (Cancelled.)

18. (Currently amended.) A transgenic plant, plant part or plant cell, which has been transformed with a nucleotide sequence encoding a polypeptide having antimicrobial activity as defined in ~~any of claims 1-4~~claim 1.

19. (Cancelled.)

20. (Cancelled.)

21. (Currently amended.) An animal feed additive comprising

(a) at least one antimicrobial polypeptide as defined in ~~any of claims 1-4~~claim 1; and

(b) at least one fat soluble vitamin, and/or

(c) at least one water soluble vitamin, and/or

(d) at least one trace mineral, and/or

(e) at least one macro mineral.

22. (Original.) The animal feed additive of claim 21, which further comprises phytase, xylanase, galactanase, and/or beta-glucanase.

26. (Currently amended.) An animal feed composition having a crude protein content of 50 to 800 g/kg and comprising at least one antimicrobial polypeptide as defined in ~~any of claims 1-~~

| 4claim 1.